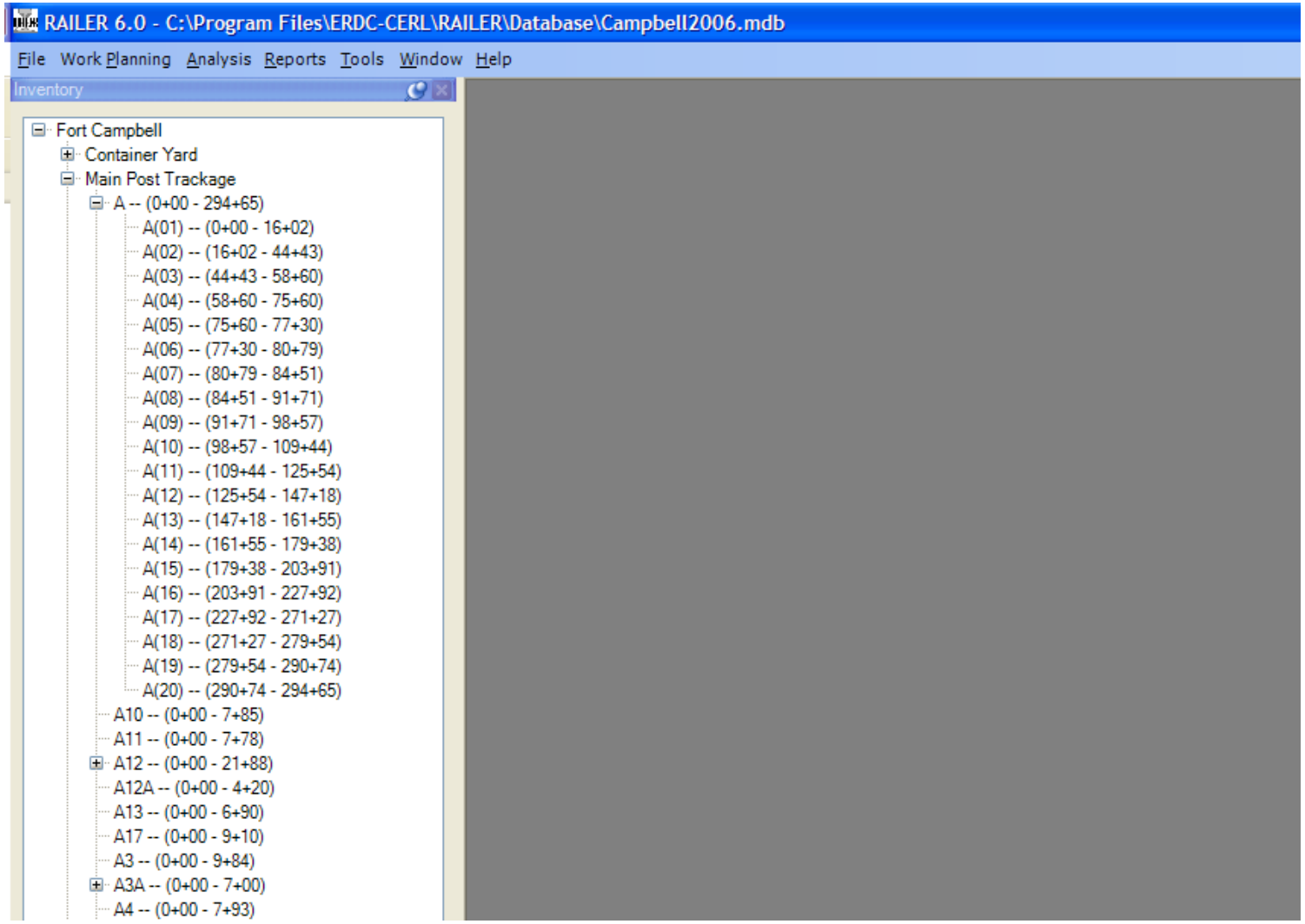
RAILER SMS

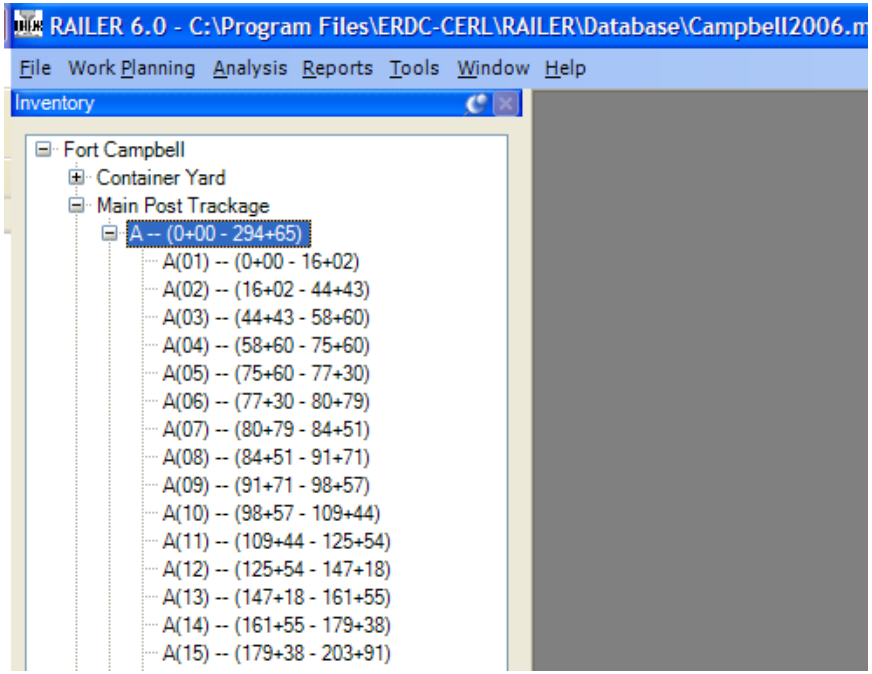
Track Inventory

Version 6.0.0

RAILER Desktop



Opening Inventory ….



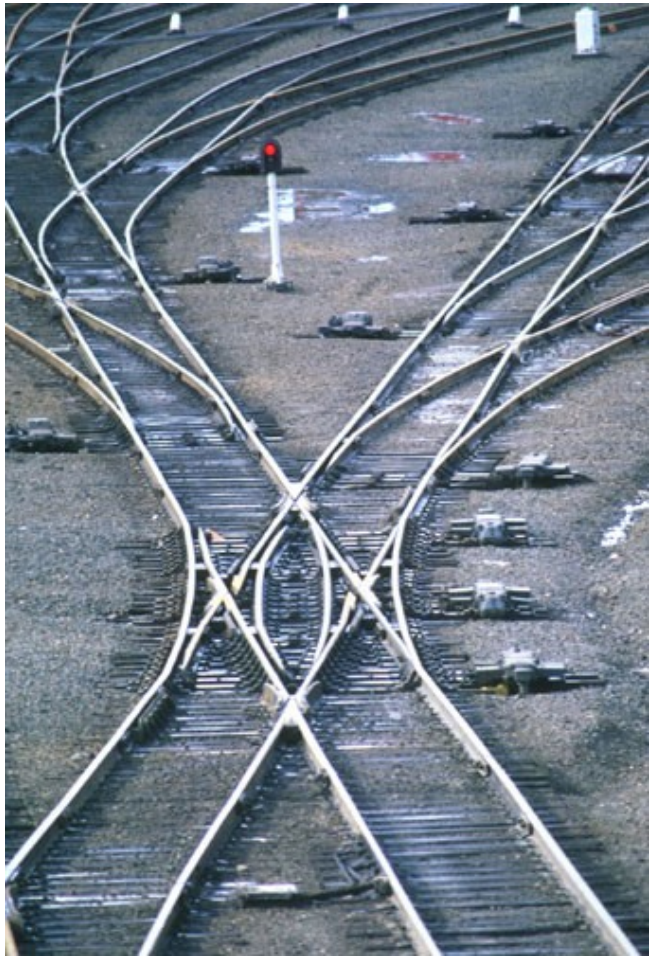
Right click on a Track in the tree, then choose *Inventory*

- View inventory information
- Enter/Edit information
- Run inventory reports

Inventory Consists of:

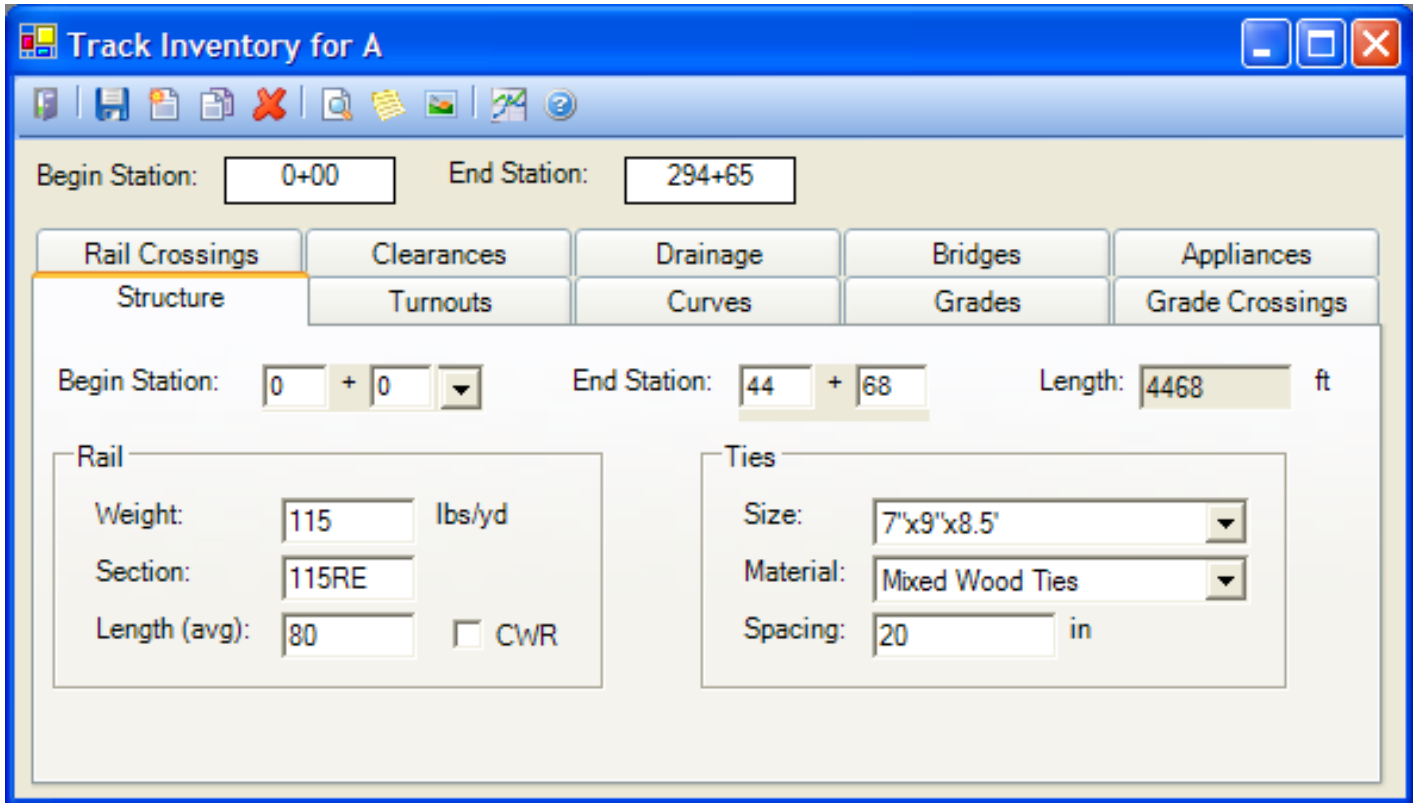
- Structure
- Turnouts
- Curves
- Grade
- Grade Crossings
- Rail Crossings
- Clearance
- Drainage
- Bridges
- Appliances

Inventory

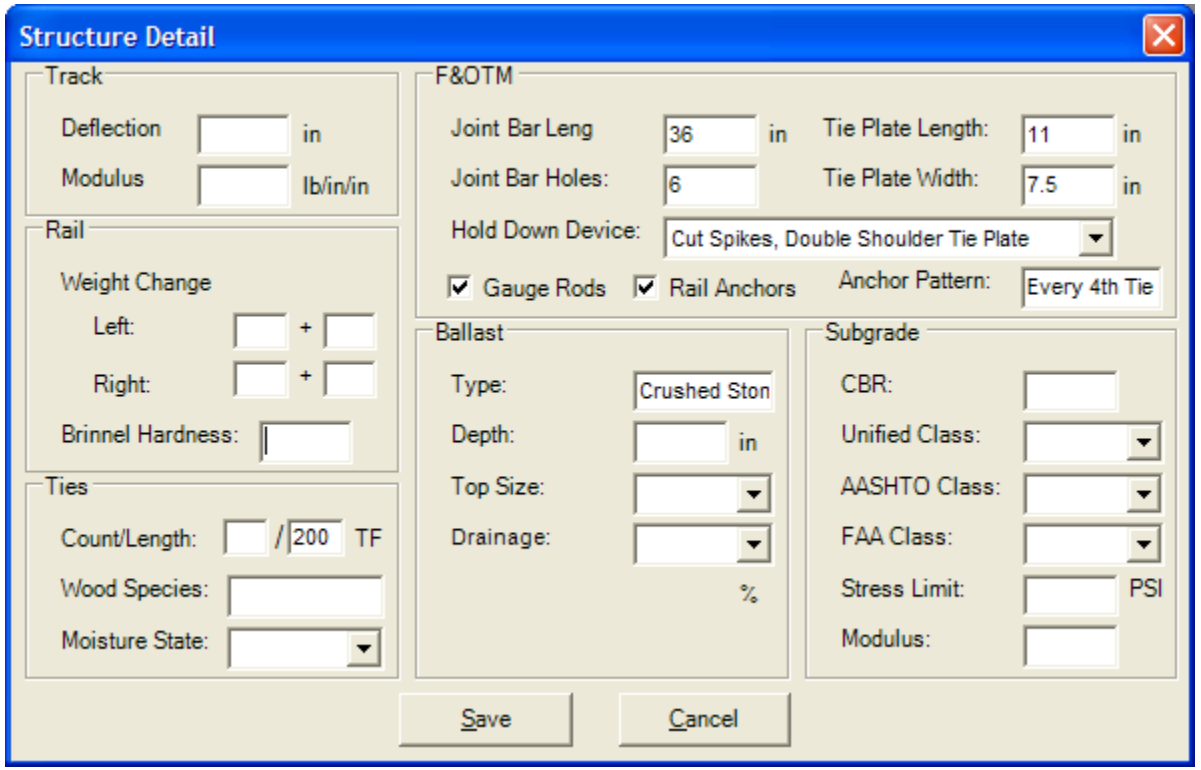


- RAILER requirement
  - Needed for inspection
  - Quantities used in M&R planning
- Provides a quick reference to:
  - What components exist
  - Component size/quantity
  - Location of certain track components
- Update frequency
  - Initial inventory created during RAILER implementation
  - Update as changes occur

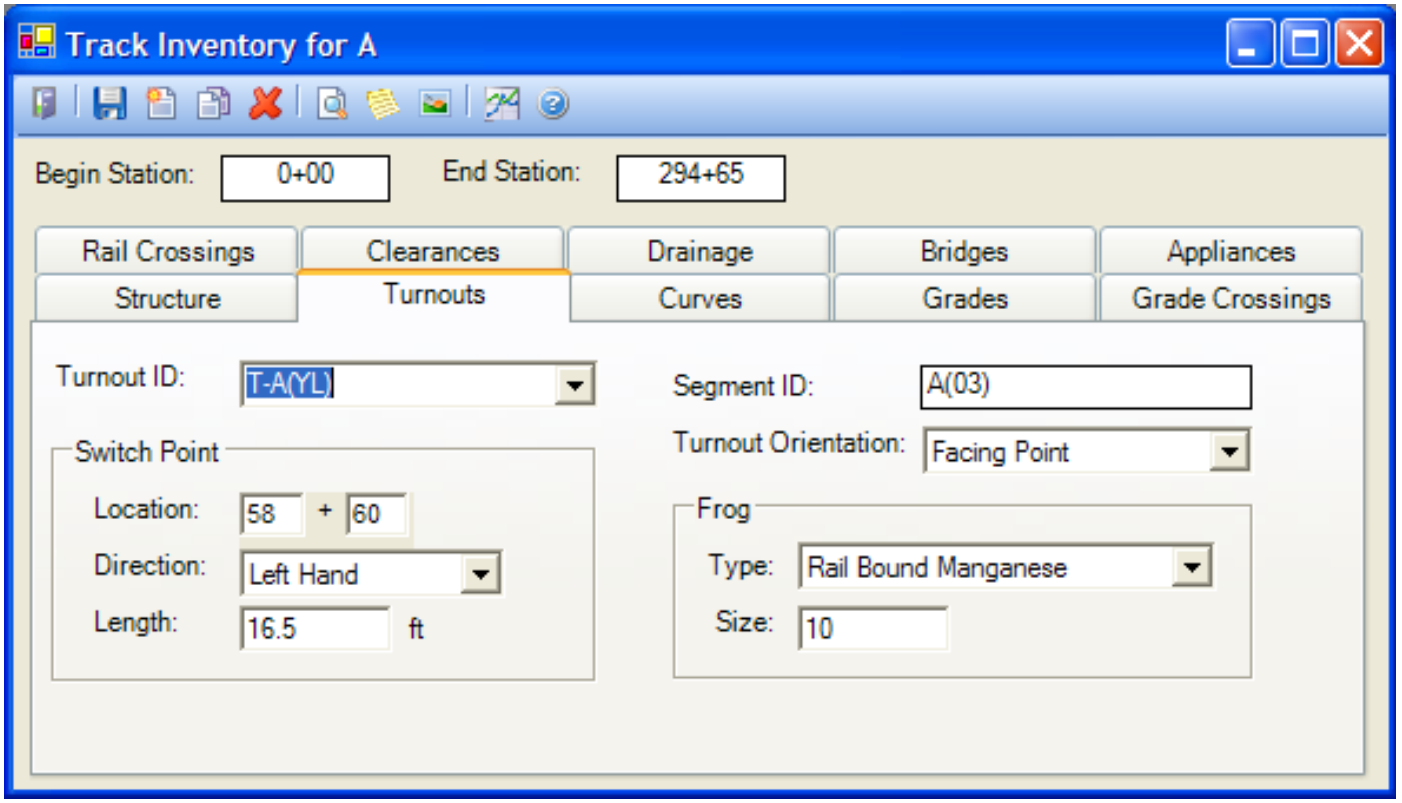
Structure


Track Inventory for A
Begin Station: 0+00
End Station: 294+65
Rail Crossings
Clearances
Drainage
Bridges
Appliances
Structure
Turnouts
Curves
Grades
Grade Crossings
Begin Station: 0 + 0
End Station: 44 + 68
Length: 4468 ft
Rail
Weight: 115 lbs/yd
Section: 115RE
Length (avg): 80 CWR
Ties
Size: 7'x9"x8.5'
Material: Mixed Wood Ties
Spacing: 20 in

Structure “Add’l Info”



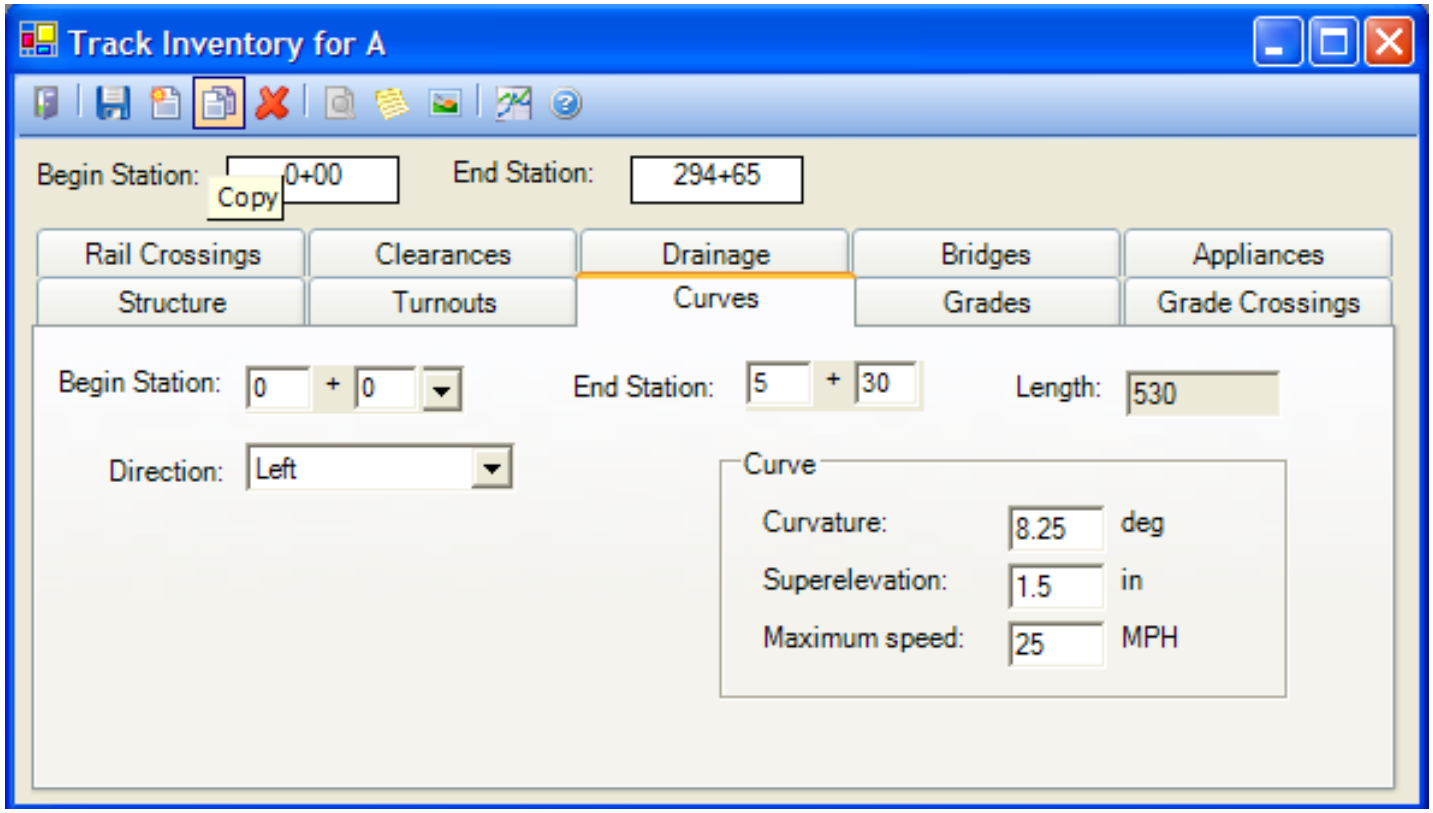
Turnouts


Track Inventory for A
Begin Station:
0+00
End Station:
294+65
Rail Crossings
Clearances
Drainage
Bridges
Appliances
Structure
Turnouts
Curves
Grades
Grade Crossings
Turnout ID:
T-A(YL)
Segment ID:
A(03)
Switch Point
Location:
58
+
60
Direction:
Left Hand
Length:
16.5
ft
Turnout Orientation:
Facing Point
Frog
Type:
Rail Bound Manganese
Size:
10

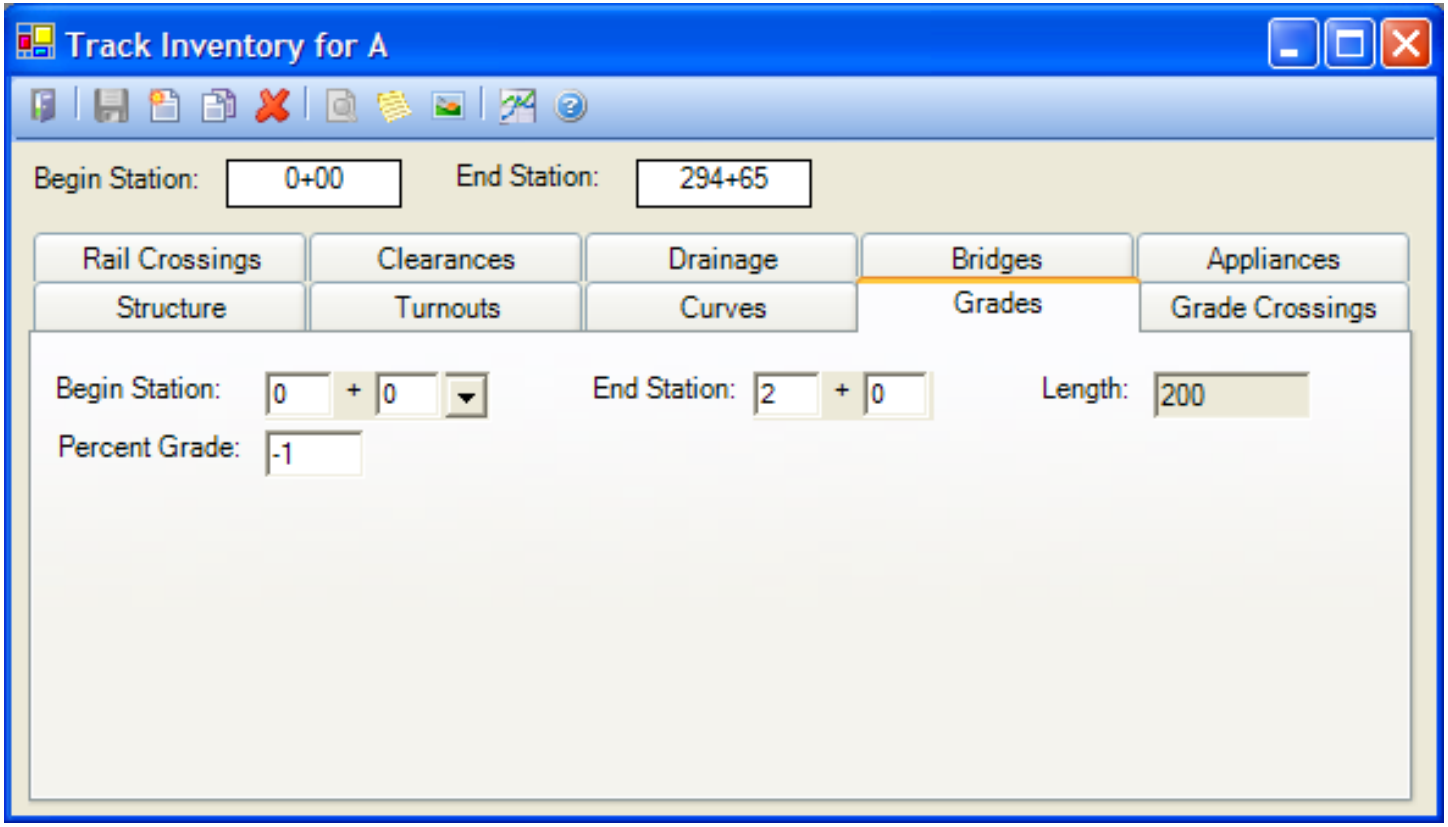
A Word About Turnout Numbering…

- Use existing numbers, if already exist.
- If none exist, create any system that is logical:
  - 1, 2, 3, …
  - T1, T2, T3, …
  - A, B, C, …
  - A unique approach, such as:
    - 1T4A 1st Turnout Leading to 4A
    - 2T4A 2nd Turnout Leading to 4A

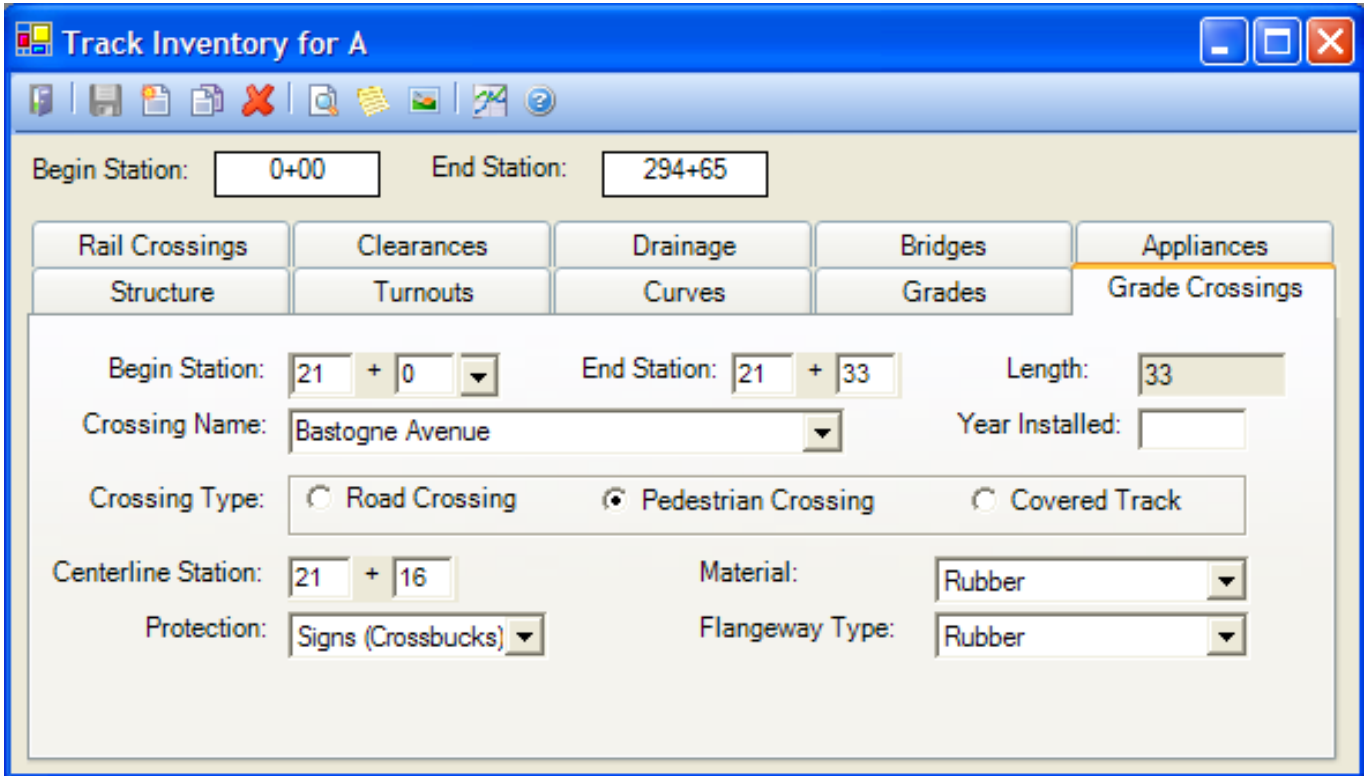
Curves


Track Inventory for A
Begin Station:
0+00
Copy
End Station:
294+65
Rail Crossings
Clearances
Drainage
Bridges
Appliances
Structure
Turnouts
Curves
Grades
Grade Crossings
Begin Station:
0
+
0
End Station:
5
+
30
Length:
530
Direction:
Left
Curve
Curvature:
8.25
deg
Superelevation:
1.5
in
Maximum speed:
25
MPH

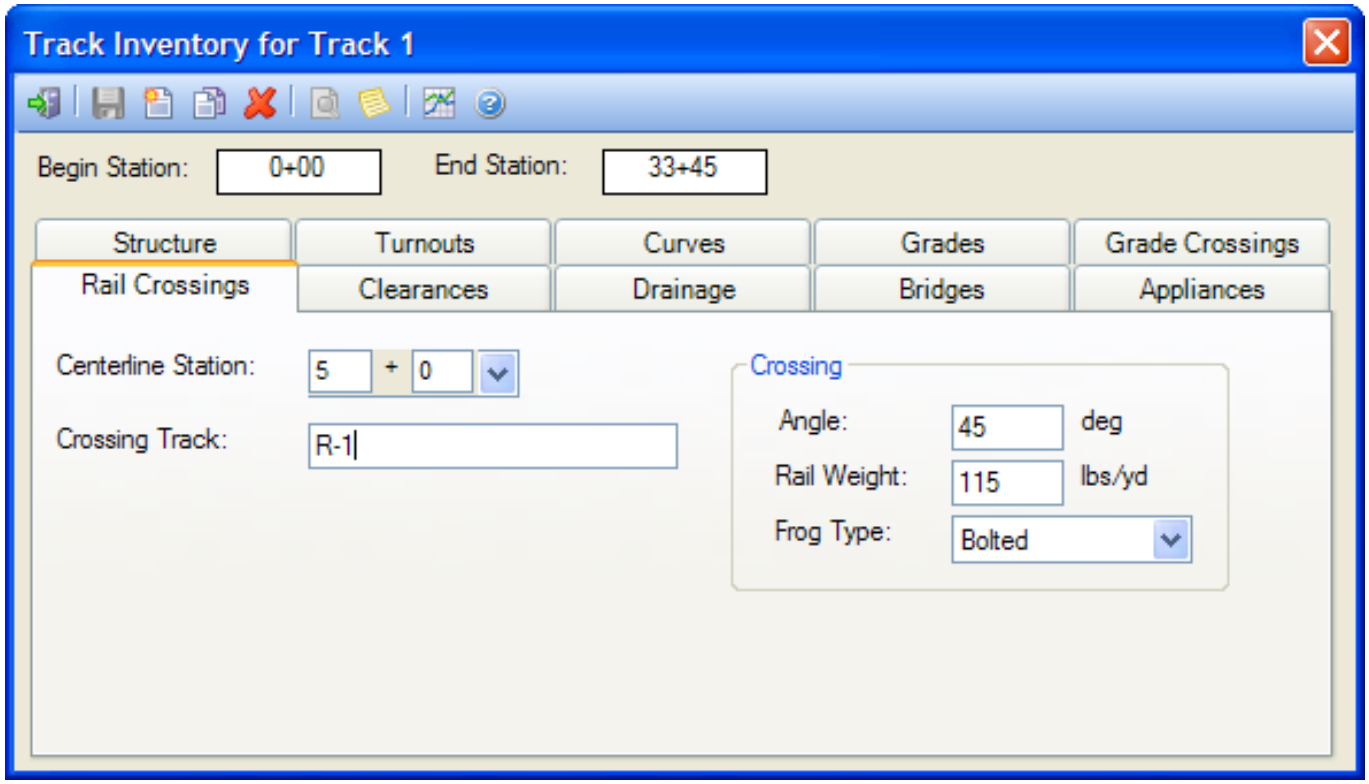
Grade


Track Inventory for A
Begin Station:
0+00
End Station:
294+65
Rail Crossings
Clearances
Drainage
Bridges
Appliances
Structure
Turnouts
Curves
Grades
Grade Crossings
Begin Station:
0
+
0
End Station:
2
+
0
Length:
200
Percent Grade:
-1

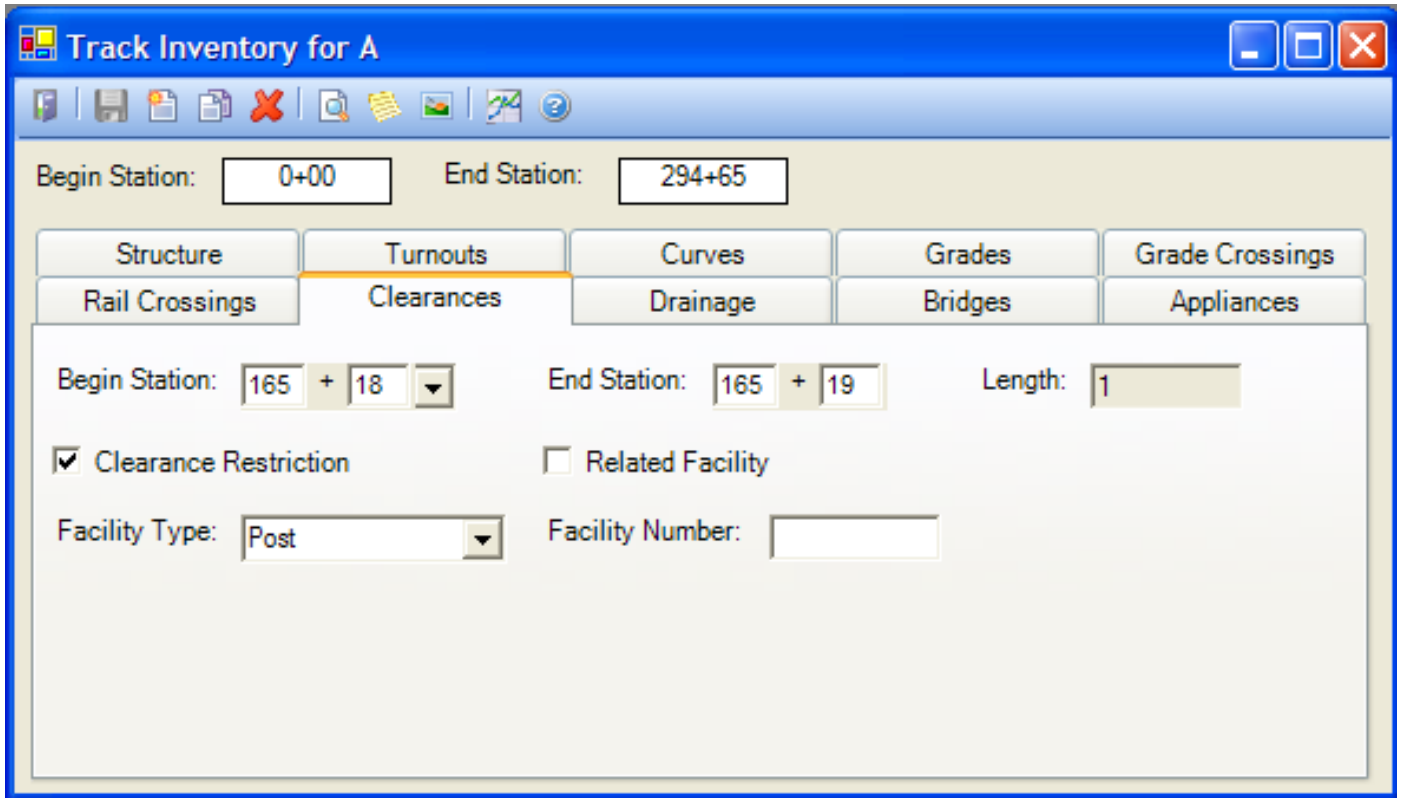
Grade Crossings



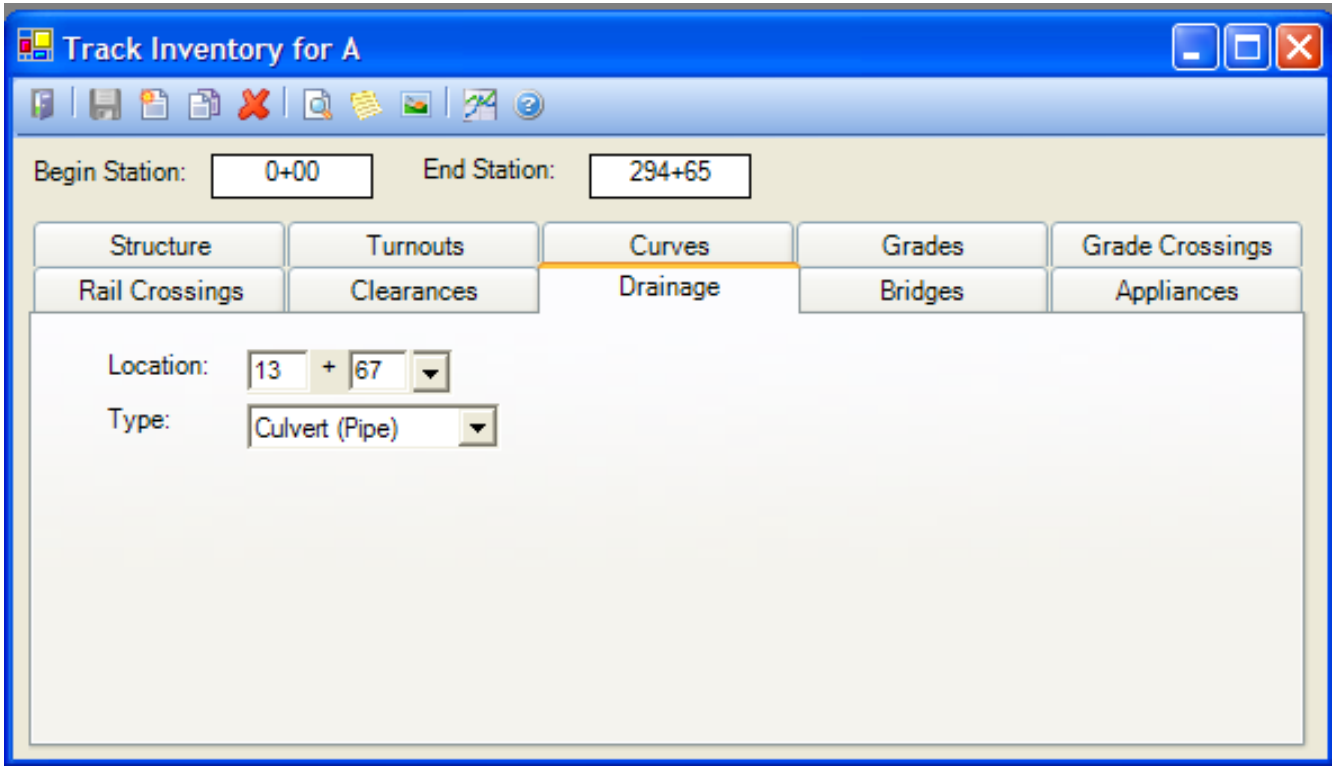
Rail Crossings



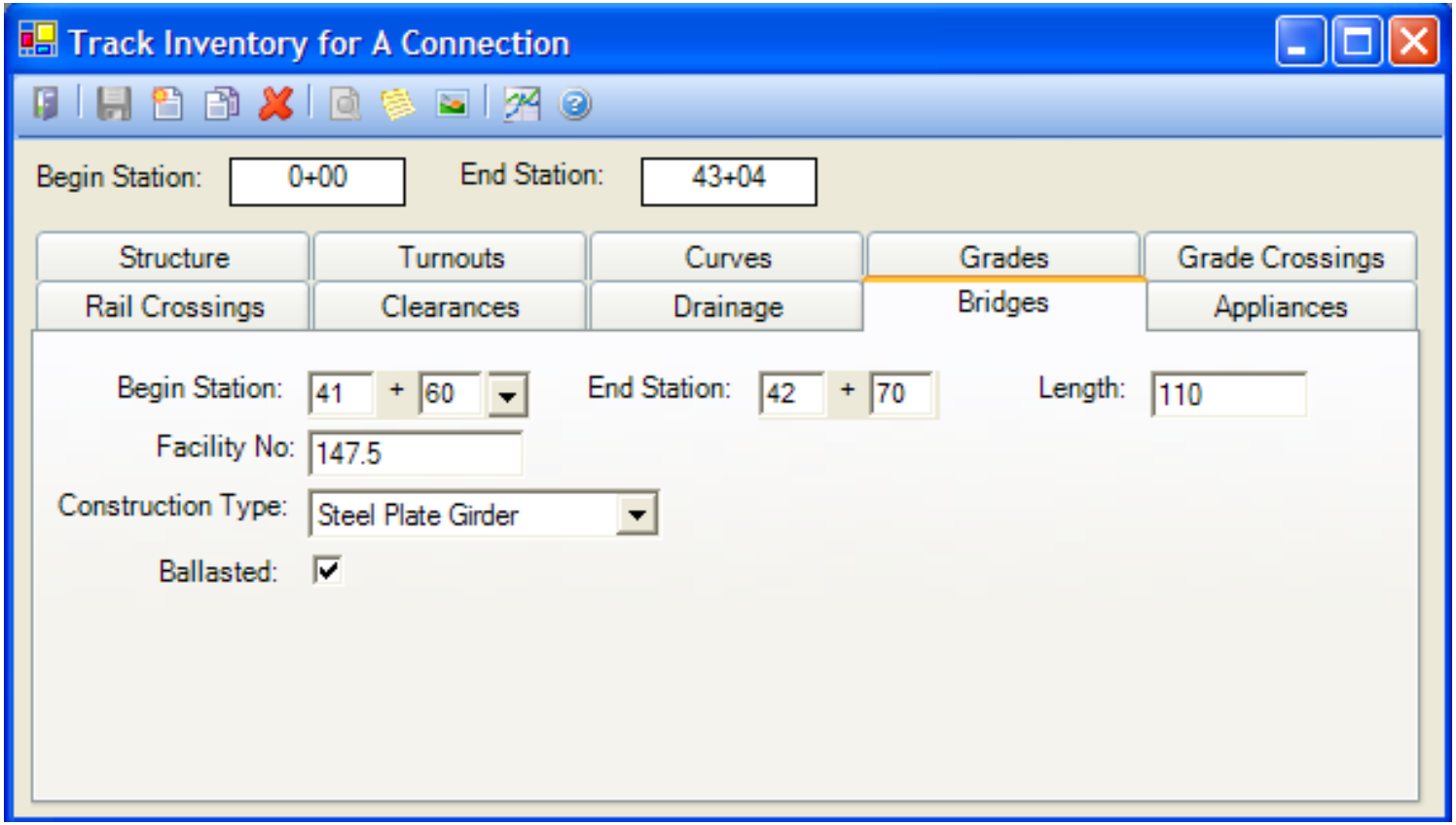
Clearance


Track Inventory for A
Begin Station: 0+00
End Station: 294+65
Structure
Turnouts
Curves
Grades
Grade Crossings
Rail Crossings
Clearances
Drainage
Bridges
Appliances
Begin Station: 165 + 18
End Station: 165 + 19
Length: 1
Clearance Restriction
Related Facility
Facility Type: Post
Facility Number:

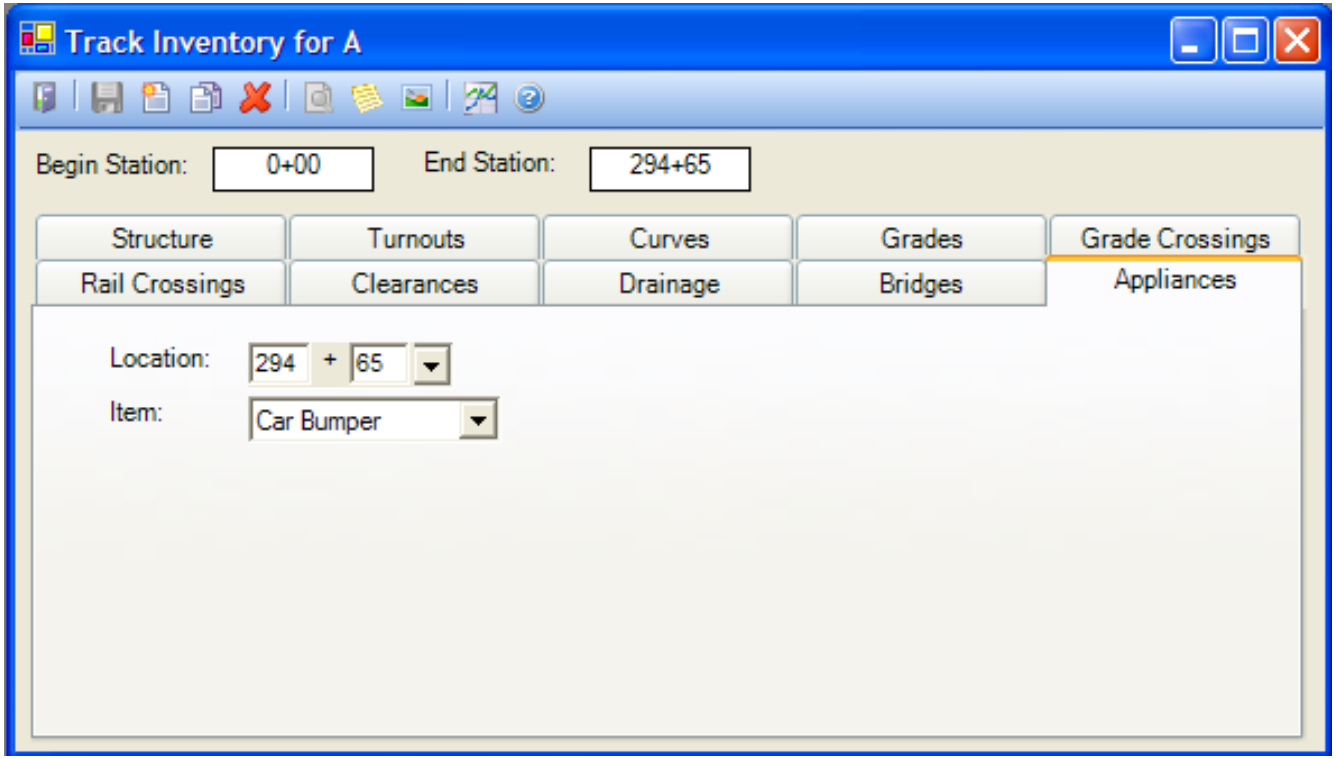
Drainage


Track Inventory for A
Begin Station:
0+00
End Station:
294+65
Structure
Turnouts
Curves
Grades
Grade Crossings
Rail Crossings
Clearances
Drainage
Bridges
Appliances
Location:
13
+
67
Type:
Culvert (Pipe)

Bridges


Track Inventory for A Connection
Begin Station: 0+00
End Station: 43+04
Structure
Turnouts
Curves
Grades
Grade Crossings
Rail Crossings
Clearances
Drainage
Bridges
Appliances
Begin Station: 41 + 60
End Station: 42 + 70
Length: 110
Facility No: 147.5
Construction Type: Steel Plate Girder
Ballasted:

Appliances


Track Inventory for A
Begin Station:
0+00
End Station:
294+65
Structure
Turnouts
Curves
Grades
Grade Crossings
Rail Crossings
Clearances
Drainage
Bridges
Appliances
Location:
294
+
65
Item:
Car Bumper

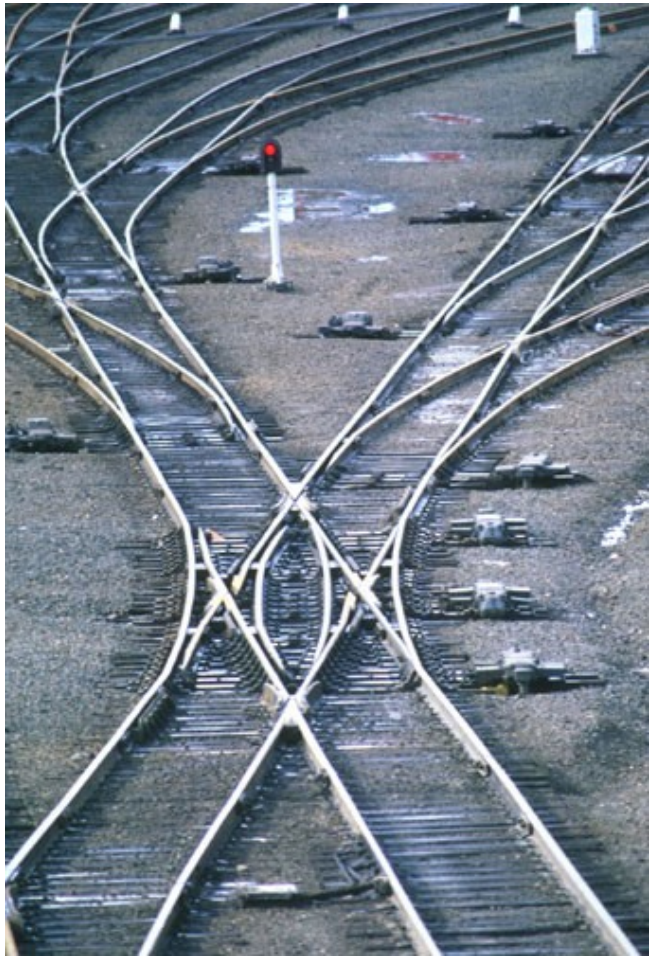
RAILER RED

Railer RED

(Remote Entry Database)

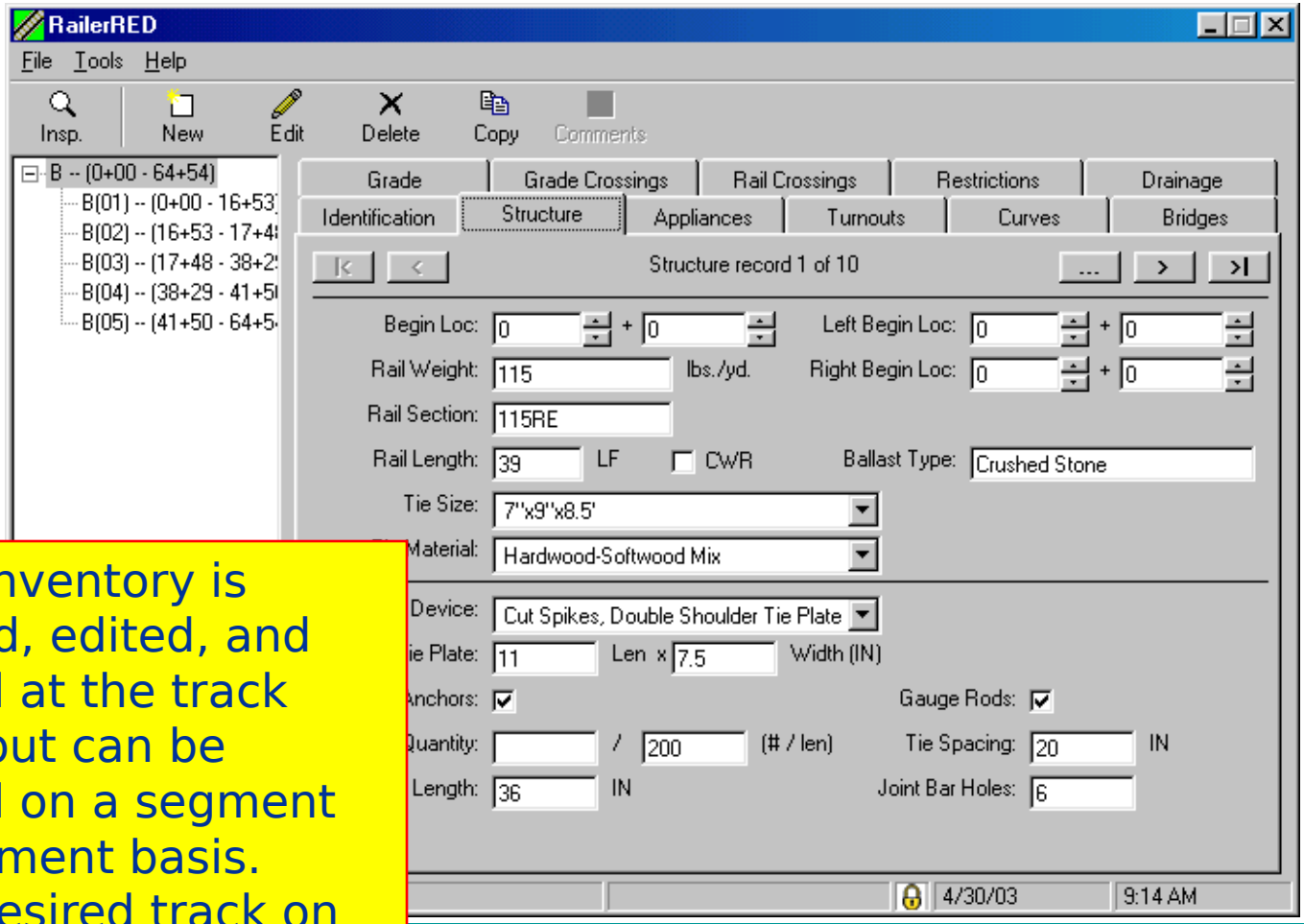
- Pen-based inventory and inspection software.
- Optional use.
- Reduces the overall data collection and data entry effort significantly with less error.
- Transfer data electronically into RAILER.
- If preferred, inventory information can be loaded directly into RAILER.
- Can be used for initial inventory data entry for a track and inventory updates.

Inventory w/RAILER RED



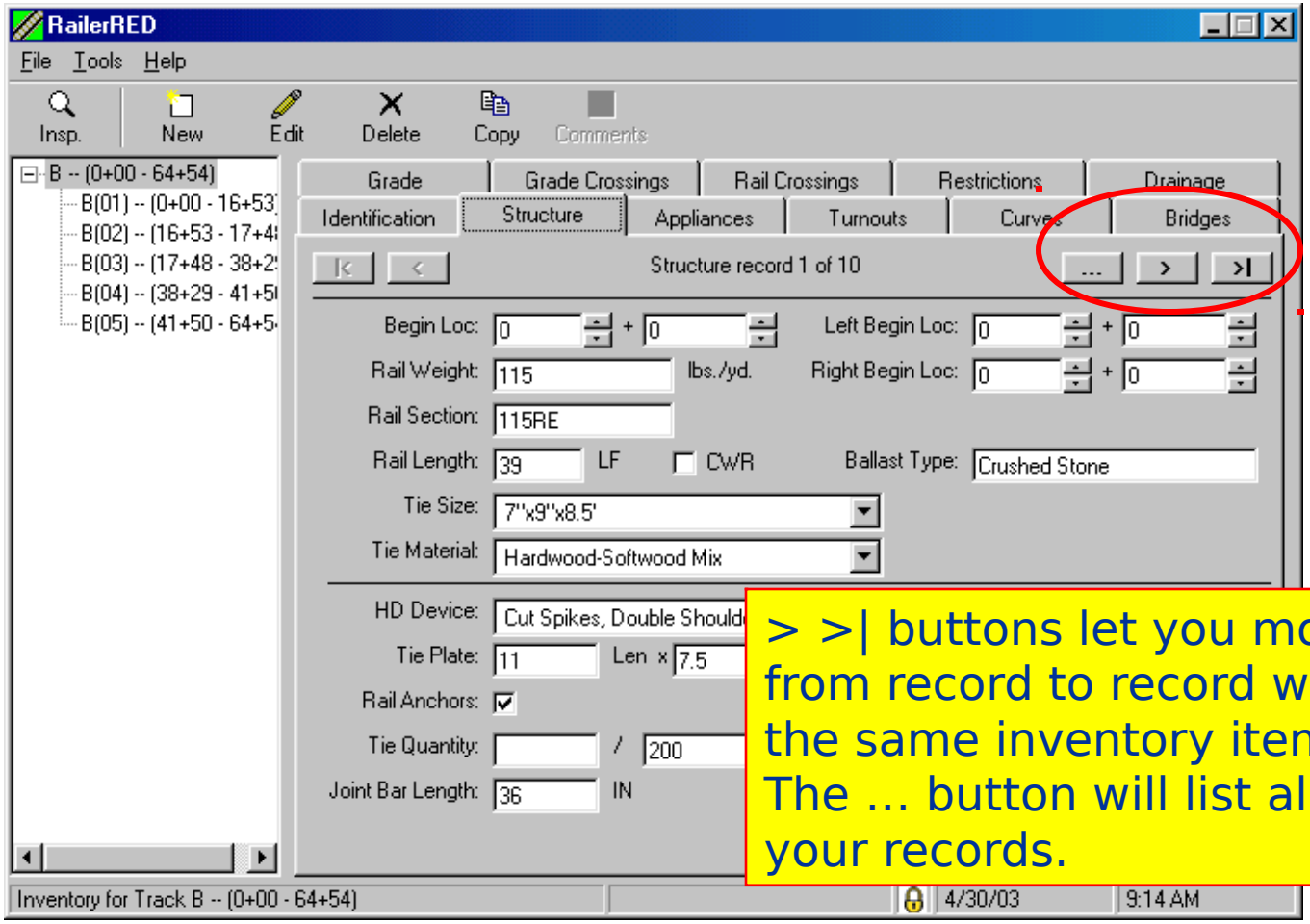
- Can be used for initial inventory data entry for a track and inventory updates.
- Includes network and track inventory.
- Can edit track and segment names as well as their station boundaries.
- New tracks and segments can be created in RAILER RED.
- Note: The first time RAILER RED is used for a given network, a minimum of one track must be imported from RAILER.

Inventory w/RAILER RED



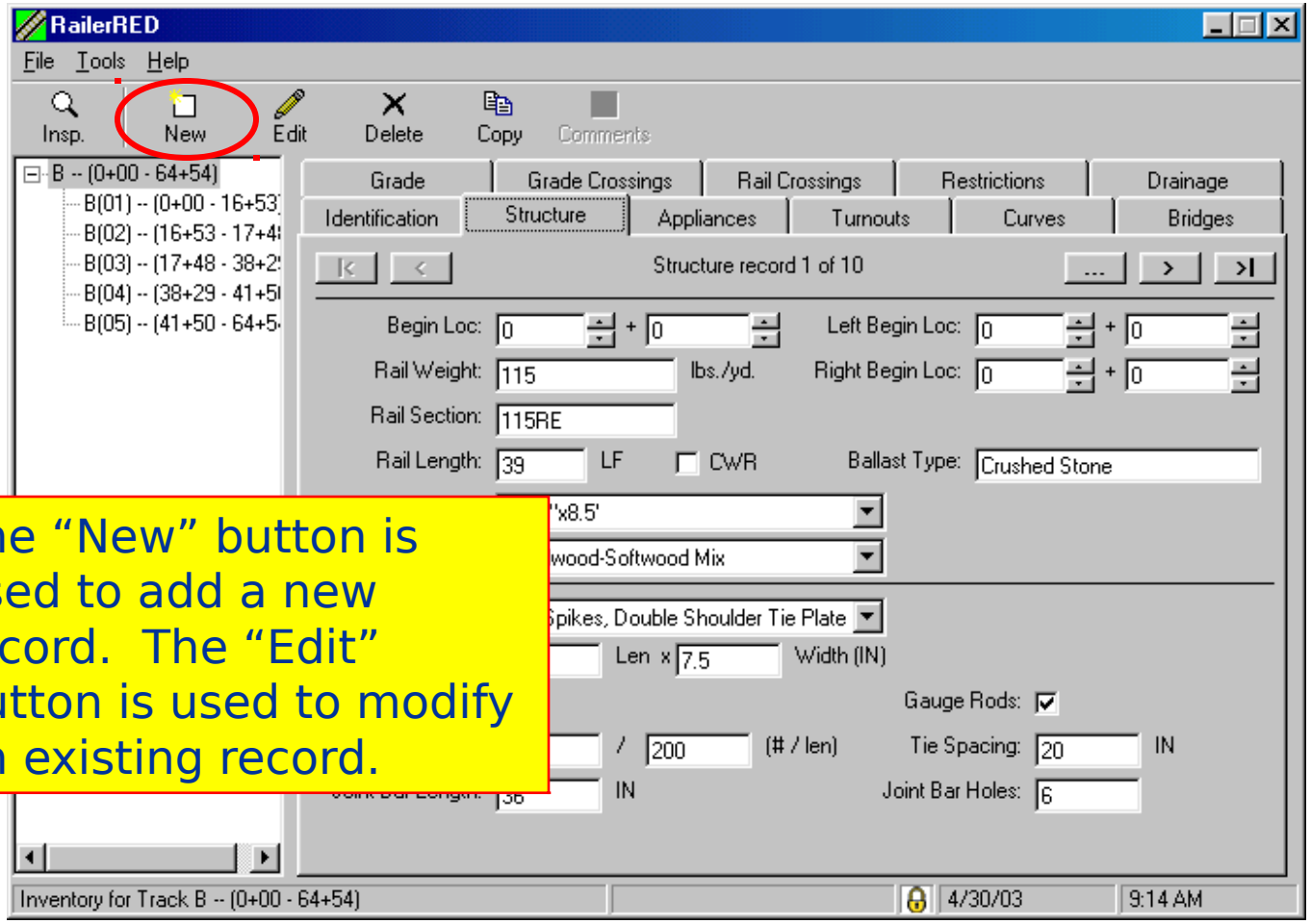
Track inventory is entered, edited, and viewed at the track level, but can be viewed on a segment by segment basis. Click desired track on tree.

Track Inventory



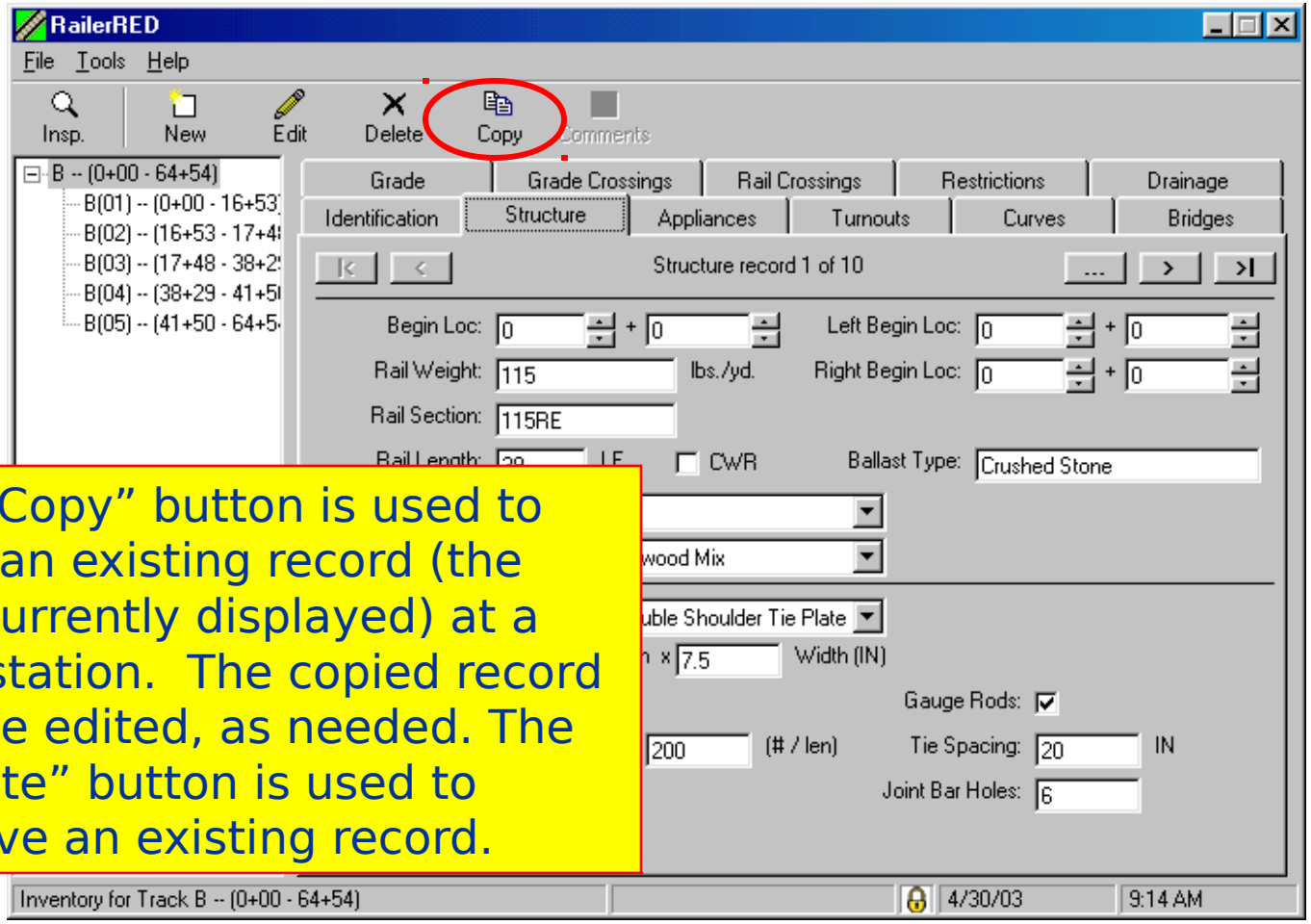
> >| buttons let you move from record to record within the same inventory item. The ... button will list all of your records.

Track Inventory



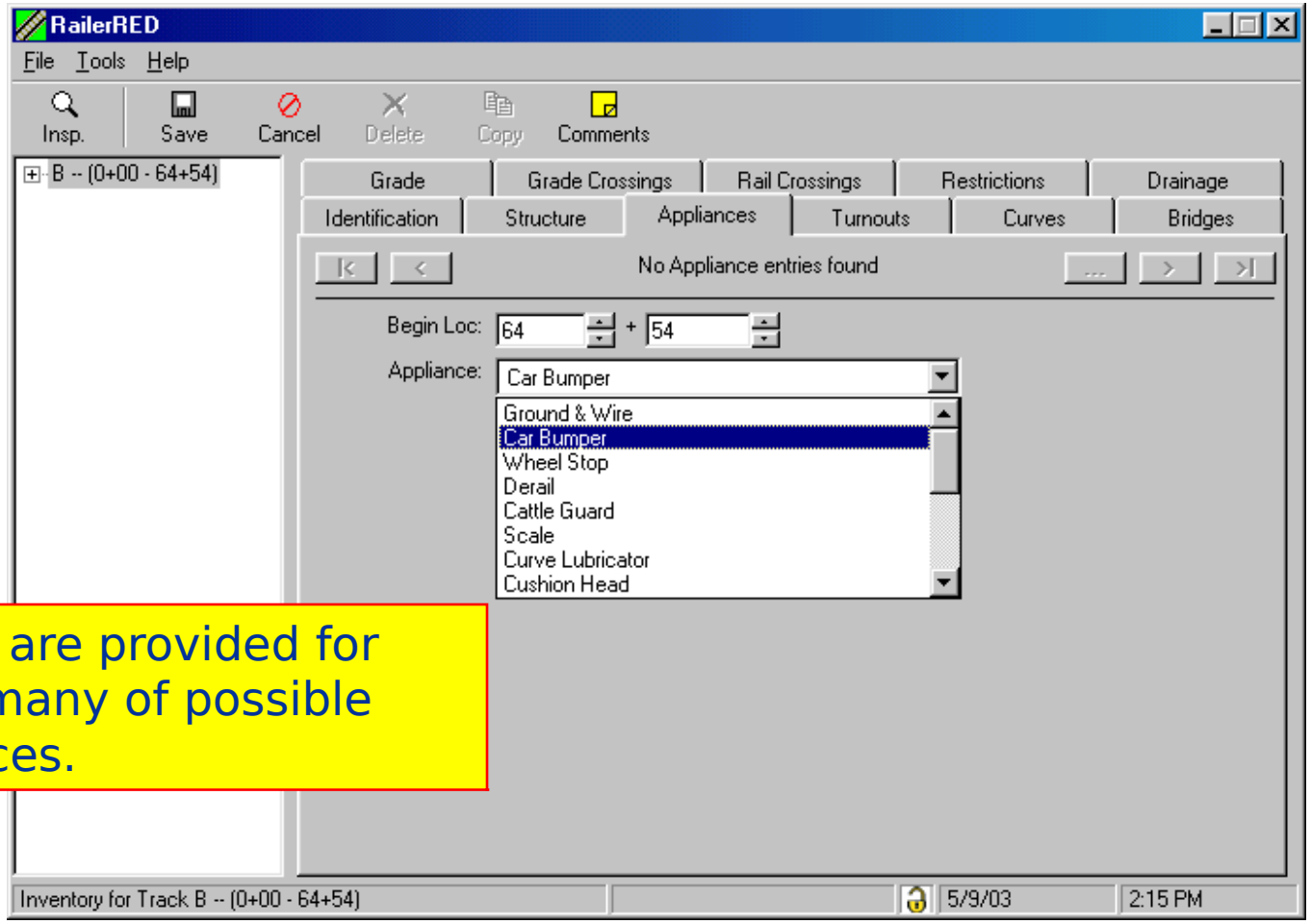
The “New” button is used to add a new record. The “Edit” button is used to modify an existing record.

Track Inventory



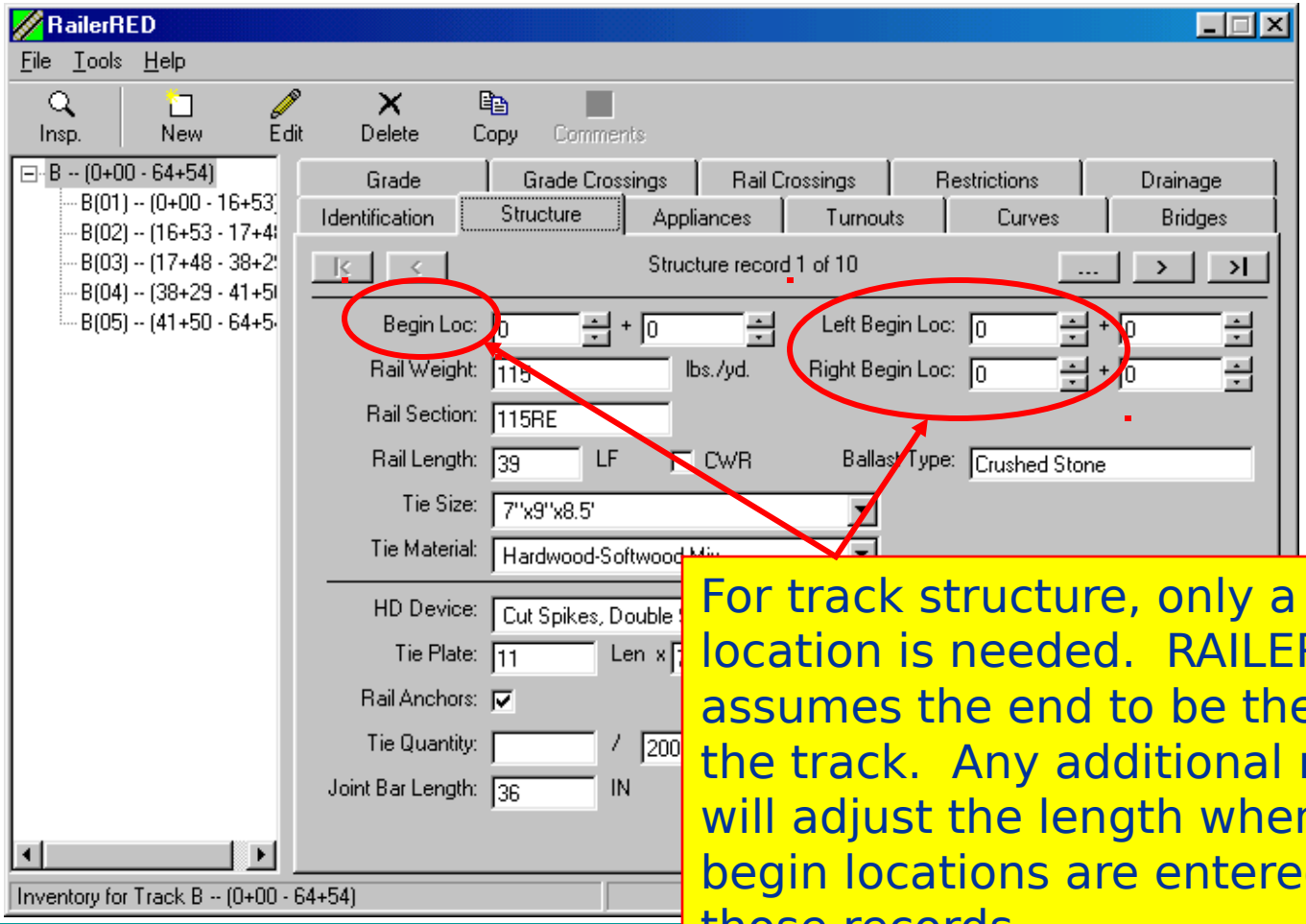
The “Copy” button is used to copy an existing record (the one currently displayed) at a new station. The copied record can be edited, as needed. The “Delete” button is used to remove an existing record.

Track Inventory



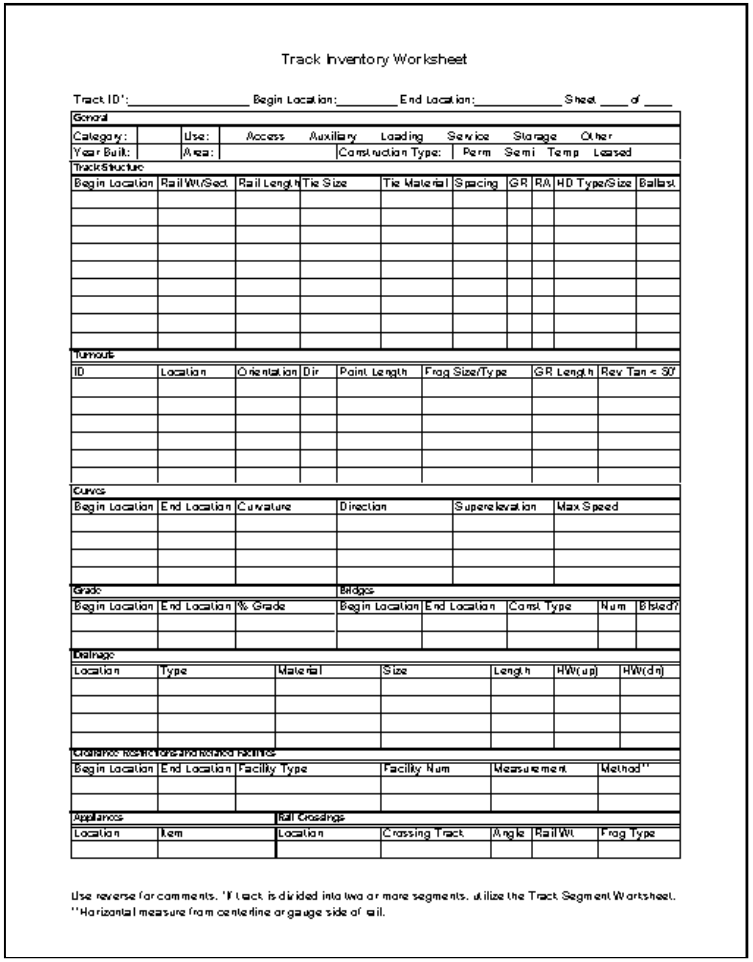
Lists are provided for the many of possible choices.

Track Inventory



For track structure, only a begin location is needed. RAILER RED assumes the end to be the end of the track. Any additional records will adjust the length when the begin locations are entered for those records.

Inventory Worksheets



Track Inventory Worksheet

Track ID*:_____ Begin Location:_____ End Location:_____ Sheet ___ of ___

General

Category:		Use:	Access	Auxiliary	Loading	Service	Storage	Other
Year Built:		Area:		Construction Type:	Perm	Semi	Temp	Leased

Track Structure

Begin Location	Rail Wt./Sect.	Rail Length	Tie Size	Tie Material	Spacing	GR	RA	HD Type/Size	Ballast

Turnouts

ID	Location	Orientation	Dir	Point Length	Frog Size/Type	GR Length	Rev Tan < 30'

Curves

Begin Location	End Location	Curvature	Direction	Superelevation	Max Speed

Grade

Begin Location	End Location	% Grade

Bridges

Begin Location	End Location	Const. Type	Num	Blocked?

Drainage

Location	Type	Material	Size	Length	HW(up)	HW(dn)

Clearance Restrictions and Isolated Facilities

Begin Location	End Location	Facility Type	Facility Num	Measurement	Method**

Appliances

Location	Item

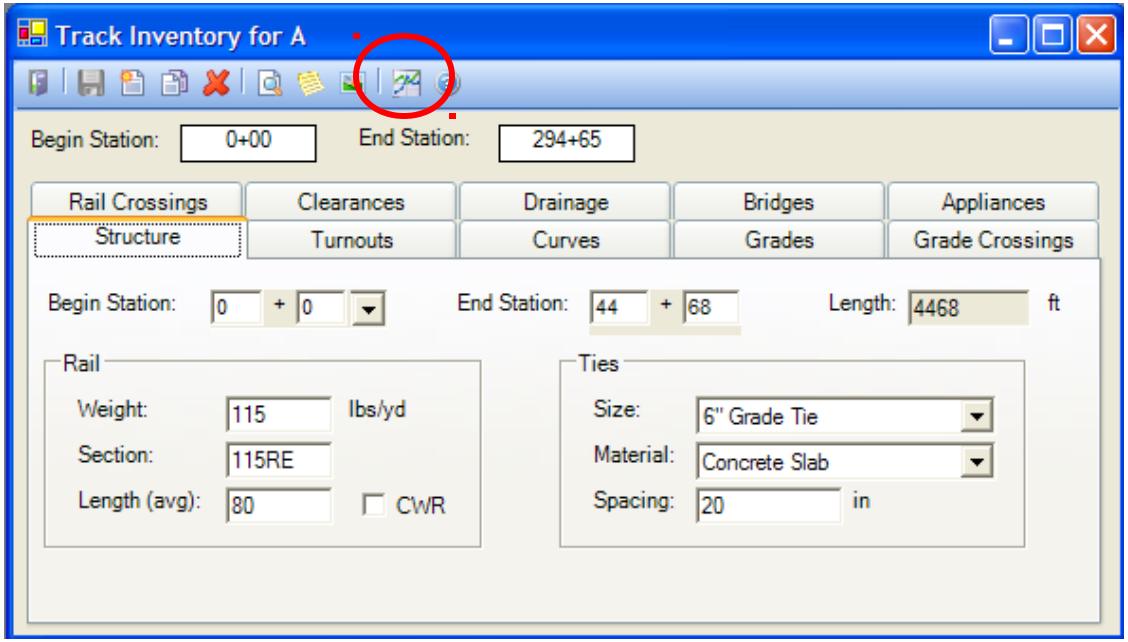
Rail Crossings

Location	Crossing Tract	Angle	Rail Wt.	Frog Type

Use reverse for comments. *If track is divided into two or more segments, utilize the Track Segment Worksheet.
**Horizontal measure from centerline or gauge side of rail.

- Used for field data collection in lieu of RAILER RED.
- Optional use.
- Worksheets exist for all inventory types.
- Available in an EXCEL format. Simply print the desired sheets and amount.
- Provided with the RAILER install CD.
- Transfer data manually into RAILER.

Regarding Reports…



- Inventory reports are run by pressing the “Generate Report” button.
- These reports are “Tab Specific.” The information reported is related to that tab only.
- Can also run consolidated inventory and location reports

Key Points to Remember

- Inventory is required for inspection and M&R planning.
- Inventory information provides a quick reliable reference tool.
- “Add’l Info” are optional information.
- RAILER RED can be optionally used for initial implementation as well as inventory updates.
- Inventory is collected “one time.” Update only when changes occur.

Questions?